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**Serial Number: 10803746**

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PALM**

**2.) See attached EAST Inventor Search  
Printout shows Inventor search terms**

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**PALM INTRANET**

## Inventor Information for 10/803746

| Inventor Name       | City   | State/Country  |
|---------------------|--------|----------------|
| MIKSZTA, JOHN A.    | DURHAM | NORTH CAROLINA |
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| PETTIS, RONALD J.   | CARY   | NORTH CAROLINA |
| ALCHAS, PAUL G.     | WAYNE  | NEW JERSEY     |

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| US<br>20070060904<br>A1 | 20070315 | Filling system and method for syringes with short needles                   | 604/411    |                                   | Vedrine;<br>Lionel et al.     |
| US<br>20070021719<br>A1 | 20070125 | INTRADERMAL SYRINGE AND NEEDLE ASSEMBLY                                     | 604/117    | 29/428                            | Alchas; Paul G.               |
| US<br>20070005017<br>A1 | 20070104 | Intradermal delivery device with crenellated skin engaging surface geometry | 604/117    |                                   | Alchas; Paul G. et al.        |
| US<br>20060264886<br>A9 | 20061123 | Method for altering insulin pharmacokinetics                                | 604/500    | 514/3                             | Pettis;<br>Ronald J. et al.   |
| US<br>20060150969<br>A1 | 20060713 | Medicament inhalation delivery devices and methods for using the same       | 128/200.14 |                                   | Connelly;<br>Robert I. et al. |
| US<br>20060121055<br>A1 | 20060608 | Compositions with enhanced immunogenicity                                   | 424/209.1  | 514/57                            | Campbell;<br>Robert L. et al. |
| US<br>20060106343<br>A1 | 20060518 | Prefillable intradermal delivery device                                     | 604/110    | 604/117;<br>604/198               | Alchas; Paul G. et al.        |
| US<br>20060069353<br>A2 | 20060330 | Safety Shield System for Prefilled Syringe                                  | 604/198    |                                   | Barrelle;<br>Laurent et al.   |
| US<br>20060058736<br>A1 | 20060316 | Novel vaccine   | 604/117    |                                   | Alchas; Paul G. et al.        |
| US<br>20060047242<br>A1 | 20060302 | Method and device for the delivery of a substance including a covering      | 604/46     |                                   | Laurent;<br>Phillipe et al.   |
| US<br>20060035905<br>A1 | 20060216 | Formulations of phosphodiesterase 5 inhibitors and methods of use           | 514/252.16 |                                   | Jiang; Ge et al.              |
| US<br>20060018877<br>A1 | 20060126 | Intradermal delivery of vaccines and therapeutic agents                     | 424/93.1   | 424/209.1;<br>604/500;<br>604/522 | Mikszta;<br>John A. et al.    |
| US                      | 20051222 | Methods of  | 424/184.1  | 514/28                            | Campbell,                     |

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| 20050281832<br>A1       |          | enhancing immune response in the intradermal compartment and compounds useful thereof               |          |  | Robert L. et al.            |
| US<br>20050256499<br>A1 | 20051117 | Methods and devices for improving delivery of a substance to skin                                   | 604/505  | 604/131  | Pettis, Ronald J. et al.    |
| US<br>20050256182<br>A1 | 20051117 | Formulations of anti-pain agents and methods of using the same                                      | 514/419  |  | Sutter, Diane E. et al.     |
| US<br>20050245594<br>A1 | 20051103 | Dermal delivery of anti-pain agents and methods useful thereof                                      | 514/419  |  | Sutter, Diane E. et al.     |
| US<br>20050244385<br>A1 | 20051103 | Intradermal cellular delivery using narrow gauge micro-cannula                                      | 424/93.7 | 604/500  | Brittingham, John M. et al. |
| US<br>20050203459<br>A1 | 20050915 | Intradermal syringe and needle assembly   | 604/117  |  | Alchas, Paul G.             |
| US<br>20050203000<br>A1 | 20050915 | Use of benzyl alcohol, and other phenolic preservatives to reduce pain during intradermal injection | 514/3    | 514/406;<br>514/56;<br>514/569;<br>514/690;<br>514/728 | Sutter, Diane E. et al.     |
| US<br>20050196380<br>A1 | 20050908 | Method for delivering therapeutic proteins to the intradermal compartment                           | 424/85.6 | 435/7.1  | Mikszta, John A. et al.     |
| US<br>20050181033<br>A1 | 20050818 | Method for delivering interferons to the intradermal compartment                                    | 424/449  | 424/85.5;<br>424/85.6;<br>424/85.7                     | Dekker, John P. III et al.  |
| US<br>20050180952<br>A1 | 20050818 | Methods for intradermal delivery of   | 424/85.2 | 424/130.1;<br>424/85.4;<br>514/2;                      | Pettis, Ronald J. et al.    |

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|                         |          | therapeutics agents  |          | 604/500   |                                |
| US<br>20050163711<br>A1 | 20050728 | Intra-dermal delivery of biologically active agents                          | 424/9.1  |   | Nycz, Colleen M. et al.        |
| US<br>20050152873<br>A1 | 20050714 | Agents for enhancing the immune response                                     | 424/85.1 | 424/130.1;<br>424/184.1;<br>424/263.1;<br>514/33;<br>514/44 | Campbell, Robert et al.        |
| US<br>20050124967<br>A1 | 20050609 | Method and device for delivery of high molecular weight substances           | 604/506  | 604/522   | Kaestner, Scott A. et al.      |
| US<br>20050113753<br>A1 | 20050526 | Intradermal needle   | 604/117  |   | Alchas, Paul G. et al.         |
| US<br>20050096632<br>A1 | 20050505 | Intradermal delivery of substances   | 604/506  | 604/117;<br>604/173   | Pettis, Ronald J. et al.       |
| US<br>20050096631<br>A1 | 20050505 | Intradermal delivery of substances   | 604/506  | 604/117;<br>604/173   | Pettis, Ronald J. et al.       |
| US<br>20050096630<br>A1 | 20050505 | Intradermal delivery of substances   | 604/506  | 604/117   | Pettis, Ronald J. et al.       |
| US<br>20050064478<br>A1 | 20050324 | Universal nucleic acid amplification system for nucleic acids in a sample    | 435/6    | 435/91.2  | Zhang, Jing et al.             |
| US<br>20050055010<br>A1 | 20050310 | Method for altering insulin pharmacokinetics                                 | 604/500  | 514/3   | Pettis, Ronald J. et al.       |
| US<br>20050049571<br>A1 | 20050303 | Device and method for delivering or withdrawing a substance through the skin | 604/500  | 604/181;<br>604/185   | Lastovich, Alexander G. et al. |
| US<br>20050038378<br>A1 | 20050217 | Device and method for delivering or withdrawing a substance through the skin | 604/47   | 604/1   | Lastovich, Alexander G. et al. |
| US<br>20050033230<br>A1 | 20050210 | Prefillable intradermal delivery device                                      | 604/117  |   | Alchas, Paul G. et al.         |

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|                         |          | with hidden needle and passive shielding  |            |           |                             |
| US<br>20050010193<br>A1 | 20050113 | Novel methods for administration of drugs and devices useful thereof  | 604/506    | 604/272   | Laurent, Philippe E. et al. |
| US<br>20050008683<br>A1 | 20050113 | Method for delivering interferons to the intradermal compartment  | 424/448    | 424/85.4  | Mikszta, John A. et al.     |
| US<br>20050004528<br>A1 | 20050106 | Safety shield system for prefilled syringe  | 604/198    |           | Barrelle, Laurent et al.    |
| US<br>20050000514<br>A1 | 20050106 | Medicament microdevice delivery system, cartridge and method of use   | 128/200.24 |           | Sullivan, Vincent J. et al. |
| US<br>20040213745<br>A1 | 20041028 | Powder formulations of rSEB for improved vaccination  | 424/46     |           | Sullivan, Vincent et al.    |
| US<br>20040175360<br>A1 | 20040909 | Method for altering drug pharmacokinetics based on medical delivery platform  | 424/85.4   | 604/500   | Pettis, Ronald J. et al.    |
| US<br>20040163645<br>A1 | 20040826 | Medicament inhalation delivery devices and methods for using the same   | 128/203.15 |           | Connelly, Robert I. et al.  |
| US<br>20040152622<br>A1 | 20040805 | System and method for initiating and maintaining continuous, long-term control of a concentration of a substance in a patient using a feedback or model-based controller coupled to a single-needle or multi- | 514/3      | 604/890.1 | Keith, Steven et al.        |

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|                         |          | needle intradermal (ID) delivery device  |           |                     |                                |
| US<br>20040143211<br>A1 | 20040722 | Substance delivery via a rotating microabrading surface  | 604/46    |                     | Haider, M. Ishaq et al.        |
| US<br>20040133159<br>A1 | 20040708 | Disposable injection device  | 604/110   | 604/181;<br>604/232 | Haider, M. Ishaq et al.        |
| US<br>20040131641<br>A1 | 20040708 | Intradermal delivery of vaccines and gene therapeutic agents via microcannula                                  | 424/218.1 | 604/500             | Mikszta, John A. et al.        |
| US<br>20040120964<br>A1 | 20040624 | Needleless vaccination using chimeric yellow fever vaccine-vectored vaccines against heterologous flaviviruses | 424/184.1 | 206/367;<br>604/46  | Mikszta, John A. et al.        |
| US<br>20040116859<br>A1 | 20040617 | Prefillable intradermal delivery device  | 604/117   | 604/218;<br>604/232 | Alchas, Paul G. et al.         |
| US<br>20040082934<br>A1 | 20040429 | Method of controlling pharmacokinetics of immunomodulatory compounds   | 604/506   |                     | Pettis, Ronald J.              |
| US<br>20040077994<br>A1 | 20040422 | Microprotrusion arrays and methods for using same to deliver substances into tissue                            | 604/46    |                     | Lastovich, Alexander G. et al. |
| US<br>20040064087<br>A1 | 20040401 | Microabrader with controlled abrasion features   | 604/46    | 604/47              | Lastovich, Alexander G. et al. |
| US<br>20040023844<br>A1 | 20040205 | Method and device for controlling drug pharmacokinetics .  | 514/1     | 604/500             | Pettis, Ronald J. et al.       |
| US<br>20030220610<br>A1 | 20031127 | Device and method for delivering or withdrawing a  | 604/47    |                     | Lastovich, Alexander G. et al. |

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|                         |          | substance through the skin  |            |  |                              |
| US<br>20030199822<br>A1 | 20031023 | Intradermal needle  | 604/117    | 604/187                                    | Alchas, Paul G. et al.       |
| US<br>20030195474<br>A1 | 20031016 | Device for withdrawing or administering a substance and method of a device                                      | 604/187    | 604/239                                    | Down, James et al.           |
| US<br>20030191085<br>A1 | 20031009 | Topical delivery of vaccines  | 514/44     |  | Mikszta, John A. et al.      |
| US<br>20030186271<br>A1 | 20031002 | Pharmaceutical compositions in particulate form   | 435/6      | 435/5                                      | Hwang, Robin et al.          |
| US<br>20030180755<br>A1 | 20030925 | Pharmaceutical compositions in particulate form   | 435/6      | 424/206.1;<br>435/5;<br>514/44;<br>530/300 | Hwang, Robin et al.          |
| US<br>20030138434<br>A1 | 20030724 | Agents for enhancing the immune response  | 424/184.1  |  | Campbell, Robert L. et al.   |
| US<br>20030125677<br>A1 | 20030703 | Medical needle assemblies   | 604/263    | 128/919                                    | Swenson, Jon D. et al.       |
| US<br>20030125676<br>A1 | 20030703 | Medical needle assemblies   | 604/263    |  | Swenson, Jon D. et al.       |
| US<br>20030125675<br>A1 | 20030703 | Medical needle assemblies   | 604/263    | 604/198                                    | Caizza, Richard James et al. |
| US<br>20030121812<br>A1 | 20030703 | Medical needle assemblies   | 206/365    | 604/263                                    | Sprieck, Terry L. et al.     |
| US<br>20030100885<br>A1 | 20030529 | Methods and devices for administration of substances into the intradermal layer of skin for systemic absorption | 604/506    | 604/272;<br>604/522                        | Pettis, Ronald J. et al.     |
| US<br>20030093040<br>A1 | 20030515 | Method and device for the delivery of a substance   | 604/289    | 606/159                                    | Mikszta, John A. et al.      |
| US                      | 20030424 | NASAL   | 128/200.14 |  | Alchas ,                     |



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| 20030075168<br>A2       |          | DELIVERY<br>DEVICE<br>INCLUDING<br>SPRAY NOZZLE   |            |                     | Paul G.                        |
| US<br>20030073112<br>A1 | 20030417 | Universal nucleic acid amplification system for nucleic acids in a sample                     | 435/6      | 435/91.2            | Zhang, Jing et al.             |
| US<br>20030069548<br>A1 | 20030410 | Microdevice and method of delivering of withdrawing a substance through the skin of an animal | 604/264    | 606/186             | Connelly, Robert I. et al.     |
| US<br>20030050602<br>A1 | 20030313 | Microneedle-based pen device for drug delivery and method for using same                      | 604/117    |                     | Pettis, Ronald J. et al.       |
| US<br>20020198509<br>A1 | 20021226 | Intradermal delivery of vaccines and gene therapeutic agents via microcannula                 | 604/500    | 604/46              | Mikszta, John A. et al.        |
| US<br>20020193778<br>A1 | 20021219 | Method of intradermally injecting substances  | 604/506    | 604/187             | Alchas, Paul G. et al.         |
| US<br>20020193740<br>A1 | 20021219 | Method of intradermally injecting substances  | 604/117    | 604/507             | Alchas, Paul G. et al.         |
| US<br>20020183688<br>A1 | 20021205 | Microdevice and method of manufacturing a microdevice   | 604/27     |                     | Lastovich, Alexander G. et al. |
| US<br>20020174864<br>A1 | 20021128 | Nasal delivery device including spray nozzle  | 128/200.14 |                     | Alchas, Paul G.                |
| US<br>20020156453<br>A1 | 20021024 | Method and device for reducing therapeutic dosage   | 604/506    | 128/898;<br>604/117 | Pettis, Ronald J. et al.       |
| US<br>20020095134<br>A1 | 20020718 | Method for altering drug pharmacokinetics   | 604/506    | 604/272             | Pettis, Ronald J. et al.       |

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|                         |          | based on medical delivery platform  |            |   |                                      |
| US<br>20020092523<br>A1 | 20020718 | Medicament inhalation delivery devices and methods for using the same     | 128/203.15 | 128/203.21;<br>128/203.23;<br>604/58        | Connelly, .<br>Robert I. et al.      |
| US<br>20020068909<br>A1 | 20020606 | Intradermal needle  | 604/198    |   | Alchas, Paul<br>G. et al.            |
| US<br>20020045858<br>A1 | 20020418 | Prefillable intradermal delivery device                                   | 604/117    | 604/187                                     | Alchas, Paul<br>G. et al.            |
| US<br>20020038111<br>A1 | 20020328 | Method of intradermally injecting substances                              | 604/500    | 604/187;<br>604/522;<br>606/172             | Alchas, Paul<br>G. et al.            |
| US<br>20010056263<br>A1 | 20011227 | Prefillable intradermal injector  | 604/193    | 128/919;<br>604/196                         | Alchas, Paul<br>G. et al.            |
| US<br>20010012925<br>A1 | 20010809 | Intradermal delivery device including a needle assembly                   | 604/198    | 604/117                                     | Alchas, Paul<br>G.                   |
| US<br>20010011171<br>A1 | 20010802 | Intradermal delivery device including a needle assembly                   | 604/506    | 604/117                                     | Alchas, Paul<br>G.                   |
| US 7166086<br>B2        | 20070123 | Substance delivery via a rotating microabrading surface                   | 604/46     | 604/290                                     | Haider; M.<br>Ishaq et al.           |
| US 7108679<br>B2        | 20060919 | Intradermal syringe and needle assembly                                   | 604/117    | 604/110;<br>604/181;<br>604/187;<br>604/272 | Alchas; Paul<br>G.                   |
| US 7083599<br>B2        | 20060801 | Prefillable intradermal delivery device                                   | 604/198    | 604/117                                     | Alchas; Paul<br>G. et al.            |
| US 7083592<br>B2        | 20060801 | Device and method for delivering withdrawing a substance through the skin | 604/47     |   | Lastovich;<br>Alexander<br>G. et al. |
| US 7060059<br>B2        | 20060613 | System and method for initiating and                                      | 604/504    | 604/67                                      | Keith;<br>Steven et al.              |

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|               |          | maintaining continuous, long-term control of a concentration of a substance in a patient using a feedback or model-based controller coupled to a single-needle or multi-needle intradermal (ID) delivery device |            |  |                                |
| US 7040316 B2 | 20060509 | Medicament inhalation delivery devices and methods for using the same   | 128/203.15 | 128/203.12; 128/203.21   | Connelly; Robert I. et al.     |
| US 6858018 B1 | 20050222 | Iontophoretic devices   | 604/19     | 604/20   | Green; Philip G. et al.        |
| US 6843781 B2 | 20050118 | Intradermal needle  | 604/117    |  | Alchas; Paul G. et al.         |
| US 6808888 B2 | 20041026 | Universal nucleic acid amplification system for nucleic acids in a sample   | 435/6      | 435/7.1; 435/91.1; 435/91.2; 536/22.1; 536/23.1; 536/24.3; 536/24.31; 536/24.32; 536/24.33 | Zhang; Jing et al.             |
| US 6808506 B2 | 20041026 | Device and method for delivering or withdrawing a substance through the skin  | 604/47     |  | Lastovich; Alexander G. et al. |
| US 6776776 B2 | 20040817 | Prefillable intradermal delivery device   | 604/198    | 604/117  | Alchas; Paul G. et al.         |
| US 6730059 B2 | 20040504 | Medical needle assemblies   | 604/110    | 128/919; 604/240; 604/241  | Caizza; Richard James et al.   |
| US 6722364 B2 | 20040420 | Medicament inhalation delivery devices and  | 128/203.15 | 128/200.23; 128/203.12; 128/203.21   | Connelly; Robert I. et al.     |

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|               |          | methods for using the same  |         |   |                                |
| US 6689118 B2 | 20040210 | Method of intradermally injecting substances  | 604/506 | 604/117   | Alchas; Paul G. et al.         |
| US 6689100 B2 | 20040210 | Microdevice and method of delivering or withdrawing a substance through the skin of an animal | 604/117 | 604/115;<br>604/180;<br>604/239;<br>604/274;<br>604/289;<br>604/890.1 | Connelly; Robert I. et al.     |
| US 6656147 B1 | 20031202 | Method and delivery device for the transdermal administration of a substance                  | 604/28  | 604/185;<br>604/27;<br>604/289;<br>604/290;<br>604/310;<br>604/87     | Gertsek; Marina et al.         |
| US 6607513 B1 | 20030819 | Device for withdrawing or administering a substance and method of manufacturing a device      | 604/239 |   | Down; James et al.             |
| US 6595947 B1 | 20030722 | Topical delivery of vaccines  | 604/27  | 604/501   | Mikszta; John A. et al.        |
| US D476418 S  | 20030624 | Medical needle assembly   | D24/130 |   | Sprieck; Terry L. et al.       |
| US 6569143 B2 | 20030527 | Method of intradermally injecting substances  | 604/506 | 604/117   | Alchas; Paul G. et al.         |
| US 6569123 B2 | 20030527 | Prefillable intradermal injector  | 604/192 | 604/198   | Alchas; Paul G. et al.         |
| US 6494865 B1 | 20021217 | Intradermal delivery device including a needle assembly                                       | 604/192 |   | Alchas; Paul G.                |
| US 6440096 B1 | 20020827 | Microdevice and method of manufacturing a microdevice   | 604/27  | 424/448   | Lastovich; Alexander G. et al. |

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| US 5951526<br>A | 19990914 | Syringe holder with integral dose divider  | 604/208  | 604/232  | Korisch; Marina et al. |
| US 5441539<br>A | 19950815 | Endothelial cell deposition device   | 600/36   | 435/297.2  | Alchas; Paul G. et al. |
| US 5372945<br>A | 19941213 | Device and method for collecting and processing fat tissue and procuring microvessel endothelial cells to produce endothelial cell product | 435/267  | 422/101;<br>435/271;<br>435/297.1;<br>435/304.2;<br>435/308.1;<br>494/27;<br>494/30;<br>494/36 | Alchas; Paul G. et al. |
| US 5334144<br>A | 19940802 | Single use disposable needleless injector  | 604/68   | 604/110;<br>604/111;<br>604/135  | Alchas; Paul G. et al. |
| US 5312380<br>A | 19940517 | Endothelial cell procurement and deposition kit  | 604/319  | 604/320  | Alchas; Paul G. et al. |
| US 5035708<br>A | 19910730 | Endothelial cell procurement and deposition kit  | 623/1.45 | 435/1.1;<br>435/379;<br>600/36;<br>604/319;<br>604/35;<br>604/48;<br>604/902                   | Alchas; Paul G. et al. |
| US 5030210<br>A | 19910709 | Catheter valve assembly  | 604/247  | 604/9  | Alchas; Paul G.        |
| US 4998926<br>A | 19910312 | Parenteral fluid administration set  | 604/251  | 604/257;<br>604/533  | Alchas; Paul G.        |
| US 4952210<br>A | 19900828 | Parenteral fluid administration set  | 604/251  | 604/257  | Alchas; Paul G.        |
| US 4772273<br>A | 19880920 | Variable-volume vented container   | 604/218  | 604/405  | Alchas; Paul G.        |
| US 4737152<br>A | 19880412 | Catheter assembly  | 604/256  | 604/247;<br>604/9  | Alchas; Paul G.        |
| US 4537593<br>A | 19850827 | Self-venting, non-coring needle assembly   | 604/411  | 604/274;<br>604/414  | Alchas; Paul G.        |
| US 1591700<br>A | 19260706 | Can opener [TEXT AVAILABLE IN USOCR DATABASE]  | 30/440   |  | DEKKER JOHN E          |
| US 1527581<br>A | 19250224 | Can opener [TEXT AVAILABLE IN  | 30/440   |  | DEKKER JOHN E          |

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|                 |          | USOCR<br>DATABASE]  |         |  |                  |
| US 1402149<br>A | 19220103 | Wheel mounting<br>[TEXT<br>AVAILABLE IN<br>USOCR<br>DATABASE] | 384/589 |  | DEKKER<br>JOHN E |